

as shown in FIG. 8. Each of the first link 23 and the second link 25 includes two plates connected with each other with a gap defined between the two plates.

FIGS. 9 and 10 respectively show the pipe cutter [clamps] clamping a small pipe 42 and a large pipe 43, wherein the second link 25 moves by rolling on the guide roller 200 and the spring 250 pulls the second link 25 to contact the guide roller 200.

FIG 11 to 13 show the third embodiment of the pipe cutter of the present invention which comprises a body 30 having an arcuate plate 301 and two side walls 302 [extend] extending from two opposite sides of the arcuate plate 301. Each of the two side walls 302 has an arcuate recess 303 and an arcuate notch 300 respectively defined in one of two sides thereof. The, [the] arcuate recess 303 [communicating] communicates with the arcuate notch 300. The body 30 has a first end with a threaded rod 31 pivotally extending therethrough and a second end thereof having a first contacting member 32 rotatably connected thereto. The threaded rod 31 extends through a tube 311 pivotally received in the first end of the body 30 and a knob 310 is connected to one of the two ends of the threaded rod 31.

A first link 33 has a first end thereof pivotally connected to the body 30 and a second end thereof having a disk blade 34 rotatably connected thereto[, the]. The rod 31 is pivotally connected to the first link 33. A second link 35 has a first end thereof pivotally connected to the first link 33 and a second end thereof having a second contacting member 36 rotatably connected thereto. A spring 350 is biased between the second link 35 and the body 30. A pin extends through the second contacting member 36 so as to have two protrusions 360 extending centrally and longitudinally from two ends of the second contacting member 36 such that the two protrusions 360 move along the two arcuate notches 300. Each of the first link 33 and the second link 35 includes two plates connected with each other with a gap defined between the two plates.

Referring to FIGS. 14 and 15 which respectively show a small pipe 44 and a large pipe 45 clamped by the pipe cutter, the second contacting member 36 is moved according to the sizes of the pipes 44, 45.

Referring to FIGS. 16 to 18 showing the fourth embodiment of the pipe cutter of the present invention, wherein the structure of the pipe cutter is the same as that shown in FIGS. 11 to 15 except that the fourth embodiment has no arcuate plate 301 as shown in FIG. 12. The two side walls 400 of the fourth embodiment of the pipe cutter are connected together by several rivets 401 so that all the parts such as the two links 402, 403 and the threaded rod 404 are received between the two side walls 400. FIGS. 19 and 20 show the fifth embodiment of the pipe cutter of the present invention, wherein the pipe cutter of the fifth embodiment is the same as that of the fourth embodiment except that a connecting plate 501 connects the two side walls 500 of the fifth embodiment and the connecting plate 501 is made of flexible and durable material so that the two side walls 500 can be folded toward [to] each other corresponding to the connecting plate 501[, and the]. The two side walls 500 are further connected by rivets 502.

The invention is not limited to the above embodiment but various [modification] modifications thereof may be made. It will be understood by those skilled in the art that various changes in form and detail may be made without departing from the scope and spirit of the present invention.

What is claimed is:

1. A pipe cutter comprising:
 - a body having two side walls and each of said two side walls having an arcuate notch defined in one of two

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sides thereof, said body having a first end with a rod pivotally and movably extending therethrough and a second end having a first contacting member rotatably connected thereto;

a first link having a first end thereof pivotally connected to said body and a second end thereof having a disk blade rotatably connected thereto, said rod pivotally connected to said first link, and

a second link having a first end thereof pivotally connected to said first link and a second end thereof having a second contacting member rotatably connected thereto, a spring biased between said second link and said body, said second contacting member having two protrusions extending centrally and longitudinally therefrom so as to move along said two arcuate notches.

2. The pipe cutter as claimed in claim 1 further comprising a knob connected to one of two ends thereof.

3. The pipe cutter as claimed in claim 1, wherein said rod is a threaded rod.

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4. The pipe cutter as claimed in claim 1 further comprising a tube rotatably received in said first end of said body and said rod movably extending through said tube.

5. The pipe cutter as claimed in claim 1, wherein said body comprises an arcuate plate and said two side walls extend from two opposite sides of said arcuate plate.

6. The pipe cutter as claimed in claim 1, wherein each of said two side walls has an arcuate recess defined in the side in which the arcuate notch is defined so as to be adapted to receive a pipe to be cut.

7. The pipe cutter as claimed in claim 1, wherein each of said first link and said second link includes two plates connected with each other with a gap defined between said two plates.

8. The pipe cutter as claimed in claim 1 further comprising a connecting plate connected between said two side walls.

9. A pipe cutter comprising:

a body having two side walls, said body having a first end with a rod pivotally and movably extending therethrough and a second end having a first contacting member rotatably connected thereto;

a first link having a first end thereof pivotally connected to said body and a second end thereof having a disk blade rotatably connected thereto, said rod pivotally connected to said first link, and

a second link having a first end thereof pivotally connected to said first link and a second end thereof having a second contacting member rotatably connected thereto, a spring biased between said second link and said body, said second contacting member having two ends each of which is slidably guided by an associated said side wall of the body.

10. The pipe cutter as claimed in claim 9 further comprising a knob connected to one of two ends thereof.

11. The pipe cutter as claimed in claim 9, wherein said rod is a threaded rod.

12. The pipe cutter as claimed in claim 9 further comprising a tube rotatably received in said first end of said body and said rod movably extending through said tube.

13. The pipe cutter as claimed in claim 9, wherein said body comprises an arcuate plate and said two side walls extend from two opposite sides of said arcuate plate.

14. The pipe cutter as claimed in claim 9, wherein each of said two side walls has an arcuate recess defined in the side in which the arcuate notch is defined so as to be adapted to receive a pipe to be cut.

15. The pipe cutter as claimed in claim 9, wherein each of said first link and said second link includes two plates connected with each other with a gap defined between said two plates.

16. The pipe cutter as claimed in claim 9 further comprising a connecting plate connected between said two side walls.

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